

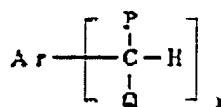
PRODUCTION OF ARYLALKYL HYDROPEROXIDE

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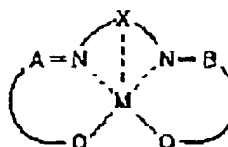
Abstract of JP9067338

PROBLEM TO BE SOLVED: To obtain the subject corresponding compound at a high reaction rate in high selectivity by using a small amount of a specific transition metal complex as catalyst.

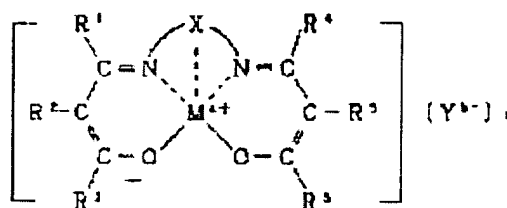
SOLUTION: (A) An arylalkyl hydrocarbon of formula I (P and Q are each H or an alkyl; (x) is 1-3; Ar is a x-valent aromatic hydrocarbon) is oxidized with an oxygen-contg. gas by using as catalyst (B) a transition metal catalyst composed of (i) a ligand forming a coordination structure of formula II (M is a transition metal ion; X is a lone pair-bearing atom, forming a partial structure of the ligand; A and B are each an organic group) and (ii) a transition metal ion (pref. manganese, cobalt, iron) to effect selective conversion into the objective corresponding compound. The component B is expressed by formula III [R<1> -R<6> are each H, a halogen or organic group; Y is a -b-valent counterion; (a)=2+nb (2<=(a)<=5; (n) is 0, 1-3] [pref. N,N-bis(1-methyl-3-oxobutylidene)-4-aza-1,7-heptanediamine-transition metal complex].



I



II



III

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